

Listing of Claims

1. (currently amended) A purification device comprising:
a sample holder having
a sample chamber ~~in communication through an opening with a~~ having an outlet;
and
a discreet column insert portion module including a cylindrical capsule extending from the outlet of the sample chamber and configured to contain a separation bed, the column insert module being securable to the purification device so that the bed is in communication with the outlet.
2. (cancelled)
3. (currently amended) A purification device as defined in claim 2 1 wherein the sample holder portion defines a first diameter and first volume and the column insert portion defines a second diameter and second volume that is less than the diameter and volume of the sample holder portion and the opening forms a tapered transition between the sample holder and column insert portion.
4. (original) A purification device as defined in claim 1 further comprising:
a column module configured to be secured in the column insert portion and in communication with the sample holder portion.
5. (original) A purification device as defined in claim 4 wherein the column module further comprises chromatography medium having a special affinity for a given substance.
6. (original) A purification device as defined in claim 1 wherein the column module further comprises permeable membranes configured to contain the medium but permit passage of a sample to through the medium.
7. (original) A purification device as defined in claim 4 wherein a sample flow pathway is defined by the sample chamber, opening and column insert portion and column insert and a flow regulator positioned along the flow pathway to regulate flow of a sample through the purification device so that purification of the sample is optimized.

8. (original) A purification device as defined in claim 7 wherein the flow regulator comprises an ultrafiltration membrane.
9. (original) A purification device as defined in claim 7 wherein the flow regulator comprises a micro-porous membrane.
10. (original) A purification device as defined in claim 7 wherein the column module further comprises a removable top portion configured to fit in sealing engagement with the column module.
11. (original) A purification device as defined in claim 10 wherein the column module is configured to receive medium selected by a user.
12. (original) A purification device as defined in claim 10 wherein the column module is configured to receive one or more permeable membranes selected by a user.
13. (currently amended) A purification device comprising:
A well plate having a plurality of wells each having a sample chamber portion, a column insert portion ; and
a column module comprising a cylindrical capsule extending from an opening of said sample chamber portion insertable into the column insert portion such that it is in fluid communication with the sample chamber portion.
14. (original) A purification device as defined in claim 13 further comprising:
a collection tray configured to correspond to the well plate such that each well of the well plate aligns with a vessel of the collection tray so that samples can be collected.
15. (original) A purification device as defined in claim 14 further comprising:
a barrier seal positioned between the well plate and the collection tray.
16. (original) A purification device as defined in claim 15 wherein the barrier seal is formed from a flexible polymer.

17. (cancelled) A purification device as defined in claim 13 wherein the column module comprises a conical sleeve.

18. (original) A purification device as defined in claim 17 wherein the column module further comprises a bottom sinter and a top sinter and particulate medium contained therebetween.

19-29. (cancelled)

30. (currently amended) A purification device kit comprising:
at least one sample holder having
a sample chamber in communication through an opening with a
a column insert portion.
at least one column module comprising a cylindrical capsule extending from an opening
of said sample chamber, and insertable into the column insert;
a binding buffer,
an elution buffer, and
a neutralization buffer.

31. (currently amended) A purification device kit as defined in claim 31 wherein a plurality of column modules are provided and each column module has a special affinity for a unique substance.

32. (currently amended) A purification device kit as defined in claim 32 wherein the column modules have affinities for different proteins.

33. (original) A purification device kit as defined in claim 31 wherein a user definable column module is provided having a removable top and user definable mediums are provided for use with the column modules.

34. (original) A purification device kit as defined in claim 31 further comprising:
a column module insertion and removal tool.